## ABSTRACT

A METHOD OF MODELING AND SIMULATING A BIOLOGICAL SYSTEM, AND A MODEL FOR USE IN THE METHOD

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A method of modeling and simulating a biological system comprising one or more tangible biological functional entities modeled by at least: a morphological occurrence comprising at least a biochemical constituent that identifies the biological functional entity and at least a transformation representing the way in which that constituent behaves as a function of the space-time context, a spatial occurrence representing at least a spatial characteristic of the biological functional entity, and a temporal occurrence representing at least a temporal characteristic of the biological functional entity, which method simulates the behavior of said biological functional entities by recursively determining the effect on their functioning and on their behavior (their activities) of all changes affecting said occurrences, including transformations.

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35 Translation of the title and the abstract as published by the PCI Authorities possibly after making changes, ex officio, e.g. under PCI Rules 37.2, 38.2, and/or 48.3.